





Chart 11322 (Side B)

NM 38/04

FREEPORT HARBOR CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2004							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CHANNEL FROM DEEP WATER TO SEAWARD END OF JETTY	42.0	44.0	41.0	6-04	400	3.7	47
JETTY CHANNEL	42.0	44.0	37.0	6-04	400	1.2	45
LOWER TURNING BASIN	39.0	40.0	43.0	6-04	750	0.9	45
THENCE TO BRAZOSPORT TURNING BASIN	43.0	45.0	44.0	2-04	400-600	0.4	45
BRAZOSPORT TURNING BASIN	45.0	45.0	43.0	2-04	500-1000	0.2	45
CHANNEL TO UPPER TURNING BASIN	41.0	47.0	45.0	2-04	280-750	0.9	45
BRAZOS HARBOR APPROACH CHANNEL	38.0	39.0	40.0	2-04	200-650	0.5	36
BRAZOS HARBOR TURNING BASIN	35.0	38.0	38.0	2-04	750	0.1	36
UPPER TURNING BASIN	46.0	46.0	47.0	2-04	600-1190	0.2	45
CHANNEL TO STAUFFER TURNING BASIN	17.0	19.0	17.5	11-88	200	1.0	25
STAUFFER TURNING BASIN	18.0	18.0	16.0	11-88	500	0.1	25
INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.							
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 11323

NM 38/04

GALVESTON BAY ENTRANCE - CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2004								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT).						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL	38.0	41.0	43.0	40.0	5-04	800-1000	7.5	45
OUTER BAR CHANNEL	35.0	44.0	46.0	52.0	1-04	800	1.5	45
INNER BAR CHANNEL	37.0	41.0	42.0	34.0	1-04	800	2.9	45
INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.								
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11324

NM 38/04

GALVESTON BAY AND HOUSTON SHIP CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2004								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
GALVESTON HARBOR:								
ENTRANCE CHANNEL	38.0	41.0	43.0	40.0	5-04	800-1000	7.5	45
OUTER BAR CHANNEL	35.0	44.0	46.0	52.0	1-04	800	1.5	45
INNER BAR CHANNEL	37.0	41.0	42.0	34.0	1-04	800	2.9	45
BOLIVAR ROADS CHANNEL	47.0	49.0	47.0	41.0	1-04	800	0.7	45
HOUSTON SHIP CHANNEL:								
BOLIVAR ROADS TO LOWER END OF MORGAN PT.	36.0	41.0	42.0	34.0	1-04	400-530	23.4	40
GALVESTON CHANNEL	28.0	35.0	30.0	20.0	5-04	1125-1075	3.5	40
TEXAS CITY CHANNEL	39.0	43.0	42.0	40.0	5-04	400	5.9	40
TEXAS CITY TURNING BASIN	41.0	42.0	44.0	43.0	5-04	1200	0.5	40
INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.								
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

SECTION I

NM 38/04

Chart 11332

NM 38/04

SABINE PASS CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2004								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE BANK CHANNEL	40	42	43	35	1-04	800	12.8	42
OUTER BAR CHANNEL	39	41	40	37	6-04	800	3.0	42
JETTY CHANNEL	35	43	42	31	4-04	800-500	3.5	40
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11341

NM 38/04

SABINE PASS CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2004								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE BANK CHANNEL	40	42	43	35	1-04	800	12.8	42
OUTER BAR CHANNEL	39	41	40	37	6-04	800	3.0	42
JETTY CHANNEL	35	43	42	31	4-04	800-500	3.5	40
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11342

NM 38/04

SABINE PASS - SABINE - NECHES CANAL CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2004								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE PASS:								
OUTER BAR CHANNEL	42	42	42	40	1-04	800	3.0	42
JETTY CHANNEL	35	43	42	31	4-04	800-500	3.5	40
PASS CHANNEL	21	27	40	25	1-04	500-1150	4.9	40
ANCHORAGE BASIN	33	21	11	1	1-04	1500	0.5	40
PORT ARTHUR SHIP CANAL	36	41	39	34	5-04	500	4.8	40
JUNCTION PORT ARTHUR-								
SABINE NECHES CANALS	35	41	37	36	5-04	400-1200	1.1	40
ENTRANCE TO PORT ARTHUR								
TURNING BASINS	36	39	39	37	4-04	282-735	0.2	40
EAST TURNING BASIN	39	39	39	38	4-04	370-547	0.3	40
WEST TURNING BASIN	38	38	39	38	4-04	350-735	0.3	40
CHANNEL CONNECTING								
WEST BASIN AND								
TAYLOR BAYOU TURNING BASIN	38	42	41	37	4-04	200-350	0.5	40
TAYLOR BAYOU TURNING BASIN	23	38	39	33	4-04	90-1233	0.6	40
SABINE-NECHES CANAL:								
PORT ARTHUR TO NECHES RIVER	23	36	33	25	1-04	400	9.6	40
NECHES RIVER TO SABINE RIVER	26	26	26	24	1-04	200	3.9	30
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11343

NM 38/04

SABINE AND NECHES RIVERS CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2004								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE-NECHES CANAL:								
PORT ARTHUR TO NECHES RIVER	35	40	38	30	6-04	400	9.6	40
NECHES RIVER TO SABINE RIVER	26	26	26	24	1-04	200	3.9	30
NECHES RIVER:								
MOUTH TO SMITH BLUFF	29	34	38	35	2-04	400	8.3	40
TURNING BASIN AT DEER BAYOU	40	39	39	37	2-04	700	0.2	40
TURNING BASIN AT SMITHS BLUFF	42	41	41	38	2-04	1400-400	0.2	40
SMITH BLUFF TO BEAUMONT	33	38	37	29	2-04	400	7.5	40
TURNING BASIN (30°02'12"N, 94°01'58"W)	41	42	42	41	2-04	400-1306	0.2	40
CHANNEL EXTENSION	38	38	39	38	2-04	350	0.2	36
MANEUVERING AREA (30°04'44"N, 94°05'05"W)	35	38	37	32	2-04	400-1000	0.6	40
BEAUMONT TURNING BASIN	37	35	36	30	4-03	400-535	0.2	34
TURNING BASIN EXTENSION	33	33	30	24	2-04	300	0.2	34
THENCE TO TRINITY INDUSTRIES	16	22	20	14	2-04	200	0.6	30
SABINE RIVER:								
MOUTH TO ORANGE MUNICIPAL SLIP	27	31	31	26	2-04	200	6.6	30
ORANGE TURNING BASIN	31	32	32	31	2-04	200 - 1400	0.6	30
ORANGE MUNICIPAL SLIP	23	30	25	23	2-04	150-200	0.5	30
ORANGE MUNICIPAL SLIP TO OLD HIGHWAY BRIDGE SITE	31	31	31	29	2-04	200	2.2	30
CHANNEL AROUND ORANGE HARBOR ISLAND	13	17	19	18	4-04	150-200	1.6	25
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11347 (Side A)

NM 38/04

CALCASIEU PASS AND RIVER								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2004								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	38.0	41.0	40.0	27.0	3-04	800	19.1	42
JETTY CHANNEL TO (29°46'00.0"N, 93°20'40.0"W)	32.0	46.0	47.0	47.0	12-03;3-04	400	1.4	40
THENCE TO A POINT (29°52'00.0"N, 93°20'43.0"W)	27.0	39.0	41.0	35.0	12-03;2-04;5-04	400	6.0	40
THENCE TO A POINT (29°58'00.0"N, 93°20'10.0"W)	27.0	35.0	37.0	30.0	5-04	400	6.0	40
THENCE TO A POINT (A) (30°04'00.0"N, 93°19'38.0"W)	33.0	37.0	37.0	31.0	5-04	400	6.0	40
THENCE TO A POINT (B) (30°09'00.0"N, 93°19'58.0"W)	32.0	37.0	37.0	31.0	5-04	400	5.0	40
THENCE TO 210 BRIDGE	33.0	35.0	34.0	32.0	5-04	400	4.4	40
THENCE TO END OF 400 CHANNEL (30°13'09.0"N, 93°15'08.0"W)	33.0	39.0	35.0	34.0	1-04	400	2.0	40
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11347 (Side B)

NM 38/04

CALCASIEU PASS AND RIVER								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2004								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	38.0	41.0	40.0	27.0	3-04	800	19.1	42
JETTY CHANNEL TO (29°46'00.0"N, 93°20'40.0"W)	32.0	46.0	47.0	47.0	12-03;3-04	400	1.4	40
THENCE TO A POINT (29°52'00.0"N, 93°20'43.0"W)	27.0	39.0	41.0	35.0	12-03;2-04;5-04	400	6.0	40
THENCE TO A POINT (29°58'00.0"N, 93°20'10.0"W)	27.0	35.0	37.0	30.0	5-04	400	6.0	40
THENCE TO A POINT (A) (30°04'00.0"N, 93°19'38.0"W)	33.0	37.0	37.0	31.0	5-04	400	6.0	40
THENCE TO A POINT (B) (30°09'00.0"N, 93°19'58.0"W)	32.0	37.0	37.0	31.0	5-04	400	5.0	40
THENCE TO 210 BRIDGE	33.0	35.0	34.0	32.0	5-04	400	4.4	40
THENCE TO END OF 400 CHANNEL (30°13'09.0"N, 93°15'08.0"W)	33.0	39.0	35.0	34.0	1-04	400	2.0	40
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11376

NM 38/04

Chart 11510

11M 2004

MOBILE BAY AND RIVER CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 2004							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL	41.2	47.0	41.7	5-04	600	7.0	47
MOBILE BAY:							
LOWER REACH (TO LIGHT 50)	41.5	43.6	41.1	5-04	400	11.8	45
UPPER REACH	39.8	43.9	38.7	5-04	400	13.4	40-45
MOBILE RIVER:							
PINTO ISLAND REACH	32.6	37.6	36.8	5-04	700-800	0.6	40
MOBILE CHANNEL	34.6	39.0	37.4	5-04	600	1.5	40
MOBILE TURNING BASIN	40.0	40.0	40.0	5-04	200-675	0.4	40
BLAKELEY ISLAND REACH	40.0	40.0	39.0	5-04	500	1.0	40
ST. LOUIS POINT REACH	19.7	24.9	22.6	12-03	500	0.2	25
CHICKASAW CREEK CHANNEL	12.7	19.4	22.6	12-03	250	2.7	25
ARLINGTON CHANNEL	17.3	18.8	18.4	9-03	150	1.4	27
OCEAN TERMINAL TURNING BASIN	17.4	18.4	11.1	9-03	600	0.1	27
THEODORE SHIP CHANNEL:							
BAY CUT	39.1	40.0	39.1	4-04	400	4.5	40
ANCHORAGE AREA	40.0	40.0	39.9	9-01	300	0.2	40
LAND CUT	36.6	38.4	A36.6	9-01	300	1.5	40
TURNING BASIN	37.0	38.0	34.8	9-01	1400	0.3	40
BARGE CHANNEL	9.5	10.5	7.9	1-04	100	1.1	12
A. ROCK OBSTRUCTIONS REPORTED FROM BUOY "20", CONTINUING FOR APPROXIMATELY 600 FEET EASTWARD. MINIMUM DEPTH OVER ROCKS IS 38 FEET.							
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 12221

NM 38/04

THIMBLE SHOAL AND CHESAPEAKE BAY ENTRANCE CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2004								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
THIMBLE SHOAL CHANNEL (A)								
NORTH ELEMENT (B)	47.6	46.5	45.6	44.1	6,7,9-00	350	13.0	55
SOUTH ELEMENT (C)	49.7	50.0	49.7	50.3	6,7,9-00	650	13.0	55
NORTH AUXILIARY CHANNEL (D)						450		32
SOUTH AUXILIARY CHANNEL (D)						450		32
CAPE HENRY CHANNEL	47.4	52.3	52.5	49.3	1,12-02	1000	4.0	50
YORK SPIT CHANNEL	45.1	49.4	49.5	47.2	11-99;2-00;9,11-02	1000(E)	18.4	50
YORK RIVER ENTRANCE CHANNEL	37.7	38.3	38.2	37.6	11-03;2-04	750	13.8	37
A. CHANNEL IS RESTRICTED TO EXCLUDE VESSELS AND TOWS DRAWING LESS THAN 25 FEET. B. PORTION OF PROJECT MAINTAINED TO 45 FEET. C. PORTION OF PROJECT MAINTAINED TO 50 FEET. D. PROJECT MAINTENANCE DISCONTINUED. E. CHANNEL WIDTH MAINTAINED TO 800 FEET. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION.								

Chart 12238

NM 38/04

YORK RIVER ENTRANCE CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2004								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
YORK RIVER ENTRANCE	37.7	38.3	38.2	37.8	11-03;2-04	750	13.8	37
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 12252

NM 38/04

JAMES RIVER TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS SURVEYS TO FEB 2004			
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			
NAME OF CHANNEL	DEPTH MLLW (FEET)	WIDTH (FEET)	DATE OF SURVEY
HOPEWELL TO RICHMOND DEEPWATER TERMINAL 37°27'05.0"N, 77°25'07.4"W	24.7	200	6-01
CHANNEL ADJOINING TURNING BASIN	24.9	200	2-04
TURNING BASIN	25.0	385	2-04
THENCE TO RICHMOND HARBOR TURNING BASIN	16.1	200	3,6-03
TURNING BASIN	9.6	140-175	3-03
THENCE TO THE LOCKS	7.7	200	3-03
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE			

Chart 12273

NM 38/04

CHESAPEAKE AND DELAWARE CANAL CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2004							
* SEE FOOTNOTE					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH * (MILES)	DEPTH * (FEET)
3400 YARDS SOUTH OF POOLES ISLAND TO THE SOUTH END OF POOLES ISLAND	40.0	40.1	39.6	10-03	400	1.68	35
SOUTH END OF POOLES ISLAND TO WORTON POINT	38.1	38.4	38.1	12-03	400	4.16	35
WORTON PT. TO HOWELL PT.	37.2	38.3	37.9	12-03	400	4.84	35
HOWELL PT. TO GROVE PT.	35.1	39.2	39.6	7-03	400	3.37	35
GROVE PT. TO TURKEY PT.	35.1	36.0	33.7	7-03	400	3.40	35
TURKEY PT. TO OLD TOWN POINT WHARF	35.3	38.3	37.7	9-03	400	5.45	35
OLD TOWN PT. WHARF TO COURTHOUSE PT.	36.3	36.8	33.7	9-03	400	1.63	35
COURTHOUSE PT. TO CHESAPEAKE CITY BRIDGE	35.7	33.8	32.7	5-04	400	3.69	35
CHESAPEAKE CITY BRIDGE TO BETHEL	32.7	33.3	34.3	5-04	400	1.51	35
* CONTROLLING CHANNEL DEPTHS IN FEET AT LOCAL MEAN LOWER LOW WATER ENTERING FROM CHESAPEAKE BAY. PROJECT LENGTHS IN NAUTICAL MILES. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 12274

NM 38/04

CHESAPEAKE AND DELAWARE CANAL CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2004							
* SEE FOOTNOTE					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH * (MILES)	DEPTH * (FEET)
3400 YARDS SOUTH OF POOLES ISLAND TO THE SOUTH END OF POOLES ISLAND	40.0	40.1	39.6	10-03	400	1.68	35
SOUTH END OF POOLES ISLAND TO WORTON POINT	38.1	38.4	38.1	12-03	400	4.16	35
WORTON PT. TO HOWELL PT.	37.2	38.3	37.9	12-03	400	4.84	35
HOWELL PT. TO GROVE PT.	35.1	39.2	39.6	7-03	400	3.37	35
GROVE PT. TO TURKEY PT.	35.1	36.0	33.7	7-03	400	3.40	35
TURKEY PT. TO OLD TOWN POINT WHARF	35.3	38.3	37.7	9-03	400	5.45	35
OLD TOWN PT. WHARF TO COURTHOUSE PT.	36.3	36.8	33.7	9-03	400	1.63	35
COURTHOUSE PT. TO CHESAPEAKE CITY BRIDGE	35.7	33.8	32.7	5-04	400	3.69	35
CHESAPEAKE CITY BRIDGE TO BETHEL	32.7	33.3	34.3	5-04	400	1.51	35
* CONTROLLING CHANNEL DEPTHS IN FEET AT LOCAL MEAN LOWER LOW WATER ENTERING FROM CHESAPEAKE BAY. PROJECT LENGTHS IN NAUTICAL MILES. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

SECTION I

NM 38/04

Chart 12277

NM 38/04

CHESAPEAKE AND DELAWARE CANAL CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2004							
* SEE FOOTNOTE					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH * (MILES)	DEPTH * (FEET)
TURKEY POINT TO OLD TOWN POINT WHARF	35.3	38.3	37.7	9-03	400	5.45	35
OLD TOWN POINT WHARF TO COURTHOUSE POINT	36.3	36.8	33.7	9-03	400	1.63	35
COURTHOUSE PT. TO CHESAPEAKE CITY BRIDGE	35.7	33.8	32.7	5-04	400	3.69	35
CHESAPEAKE CITY BRIDGE TO BETHEL	32.7	33.7	34.3	5-04	400	1.51	35
BETHEL TO GUTHRIE BRANCH	32.9	36.2	35.0	5-04	400	1.13	35
GUTHRIE BRANCH TO SUMMIT BRIDGE	39.8	34.7	40.6	5-04	400	1.02	35
SUMMIT BRIDGE TO RAILROAD BRIDGE	32.9	32.9	36.0	9-03	400	1.65	35
RAILROAD BRIDGE TO ST. GEORGES BRIDGE	36.9	36.9	33.8	9-03	400	2.57	35
ST. GEORGES BRIDGE TO BIDDLE POINT	33.6	36.1	35.4	9-03	400	1.58	35
BIDDLE POINT TO REEDY POINT BRIDGE	35.7	35.8	34.4	9-03	400	1.68	35
REEDY POINT BRIDGE TO DELAWARE RIVER	34.1	34.9	34.4	9-03	400	1.63	35
* CONTROLLING CHANNEL DEPTHS IN FEET AT LOCAL MEAN LOWER LOW WATER ENTERING FROM CHESAPEAKE BAY. PROJECT LENGTHS ARE GIVEN IN NAUTICAL MILES UNLESS OTHERWISE INDICATED. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 12278

NM 38/04

CHESAPEAKE AND DELAWARE CANAL CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2004							
* SEE FOOTNOTE					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH * (MILES)	DEPTH * (FEET)
3400 YARDS SOUTH OF POOLES ISLAND TO THE SOUTH END OF POOLES ISLAND	40.0	40.1	39.6	10-03	400	1.68	35
SOUTH END OF POOLES ISLAND TO WORTON POINT	38.1	38.4	38.1	12-03	400	4.16	35
WORTON PT. TO HOWELL PT.	37.2	38.3	37.9	12-03	400	4.84	35
* CONTROLLING CHANNEL DEPTHS IN FEET AT LOCAL MEAN LOWER LOW WATER ENTERING FROM CHESAPEAKE BAY. PROJECT LENGTHS IN NAUTICAL MILES. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

SECTION I

NM 38/04

Chart 12369

NM 38/04

BRIDGEPORT AND BLACK ROCK HARBORS - CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2004 AND SURVEYS TO OCT 2003							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BRIDGEPORT ENTRANCE CHANNEL	31.0	32.0	28.9	10-03	400	2.5	35
BRIDGEPORT REACH	24.4	26.2	24.1	10-03	400-600	0.9	35
PEQUONNOCK RIVER							
LOWER REACH	7.5	12.0	A 12.0	10-03	69-300	0.5	18
UPPER REACH	B 8.2	C 7.9	D 7.1	10-03	69-125	0.4	18
JOHNSONS CREEK							
ENTRANCE CHANNEL	11.1	10.7	E 8.8	10-03	200-350	0.7	15
NEWFIELD REACH	9.9	9.0	6.6	7-90,3-00	100	0.2	9
YELLOW MILL CHANNEL							
LOWER REACH	13.9	14.8	16.2	10-03	200-100	0.3	18
MIDDLE REACH	12.1	14.4	11.0	10-03	200-100	0.3	18
UPPER REACH	F 9.5	G 11.4	H 10.1	10-03	150	0.3	18
BLACK ROCK ENTRANCE CHANNEL	9.3	13.2	11.2	2-03	150	1.1	18
BLACK ROCK REACH	8.5	12.7	10.7	2-03	150	0.6	18
CEDAR CREEK CHANNEL	11.0	12.6	11.3	2-03	200-150	0.4	18
WEST BRANCH	14.2	13.7	13.8	2-03	100	0.3	18
EAST BRANCH	I 14.4	J 14.9	K 12.4	2-03	100	0.2	18

A. EXCEPT FOR SHOALING TO 5.3 FEET AT 41°10'54.0"N, 73°11'06.0"W.
 B. EXCEPT FOR SHOALING TO 4.2 FEET IN THE LAST 300 FEET OF CHANNEL.
 C. EXCEPT FOR SHOALING TO 1.6 FEET IN THE LAST 300 FEET OF CHANNEL.
 D. EXCEPT FOR SHOALING TO 1.6 FEET IN THE LAST 300 FEET OF CHANNEL.
 E. EXCEPT FOR SHOALING TO 3.6 FEET AT 41°09'56.0"N, 73°10'02.3"W.
 F. EXCEPT FOR SHOALING TO BARE THE LAST 300 FEET OF CHANNEL.
 G. EXCEPT FOR SHOALING TO 3.4 FEET IN THE LAST 300 FEET OF CHANNEL.
 H. EXCEPT FOR SHOALING TO 2.0 FEET IN THE LAST 300 FEET OF CHANNEL.
 I. EXCEPT FOR SHOALING TO 5.4 FEET THE LAST 200 FEET OF THE CHANNEL.
 J. EXCEPT FOR SHOALING TO 5.2 FEET THE LAST 200 FEET OF THE CHANNEL.
 K. EXCEPT FOR SHOALING TO 2.8 FEET THE LAST 200 FEET OF THE CHANNEL.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14853 (Page 11)

NM 38/04

RIVER ROUGE CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2004							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
SHORT CUT CANAL							
ENTRANCE TO WEST JEFFERSON AVE. BRIDGE	19.4	22.3	13.2	4,5-04	100-400	1.08	21
WEST JEFFERSON AVE. BRIDGE TO I-75 BRIDGE	17.9	21.2	18.1	4,5-04	100-200	.74	21
I-75 BRIDGE TO DIX AVE. BRIDGE	14.2	19.8	16.2	5-04	100-200	.91	21
DIX AVE. BRIDGE TO END	13.6	17.4	15.6	5-04	100-800	.25	21
OLD CHANNEL							
ENTRANCE TO 42°17'19.9"N 83°06'27.5"W	23.9	24.0	18.5	5-04	100-300	.25	25
42°17'19.9"N 83°06'27.5"W TO 42°17'23.2"N 83°06'46.0"W	17.0	19.6	4.7	5-04	100	.27	18
42°17'23.2"N 83°06'46.0"W TO RR SWING BRIDGE	14.5	18.7	12.5	5-04	100	.29	17
RR SWING BRIDGE TO SHORT CUT CANAL	13.2	15.4	12.5	5-04	100-600	.76	17

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 38/04

Chart 14854

NM 38/04

RIVER ROUGE CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2004							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
SHORT CUT CANAL							
ENTRANCE TO WEST JEFFERSON AVE. BRIDGE	19.4	22.3	13.2	4,5-04	100-400	1.08	21
WEST JEFFERSON AVE. BRIDGE TO I-75 BRIDGE	17.9	21.2	18.1	4,5-04	100-200	.74	21
I-75 BRIDGE TO DIX AVE. BRIDGE	14.2	19.8	16.2	5-04	100-200	.91	21
DIX AVE. BRIDGE TO END	13.6	17.4	15.6	5-04	100-800	.25	21
OLD CHANNEL							
ENTRANCE TO 42°17'19.9"N 83°06'27.5"W	23.9	24.0	18.5	5-04	100-300	.25	25
42°17'19.9"N 83°06'27.5"W TO 42°17'23.2"N 83°06'46.0"W	17.0	19.6	4.7	5-04	100	.27	18
42°17'23.2"N 83°06'46.0"W TO RR SWING BRIDGE	14.5	18.7	12.5	5-04	100	.29	17
RR SWING BRIDGE TO SHORT CUT CANAL	13.2	15.4	12.5	5-04	100-600	.76	17
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 18581

NM 38/04

YAQUINA BAY AND RIVER CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2004							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CHANNEL ENTRANCE							
44°36'23"N, 124°05'24"W							
TO FIRST TURN	25	31	27	7-04	400-300	1.3	40-30
THENCE TO TURNING BASIN	24	27	25	4-03	300-400	1.3	30
TURNING BASIN	16	21	23	4-03	300-1200	0.3	30
THENCE TO YAQUINA	13	12	12	6-00	200	1.6	18
THENCE TO END OF PROJECT	2A	07	5B	7-98;7-00;11-00	150	9.7	10
A. SHOAL TO BARE AT 44°36'57.89"N, 123°56'34.87"W.							
B. SHOAL TO BARE FROM 44°36'49.6"N, 123°56'55.4"W TO 44°36'57.3"N, 123°56'42.7"W.							
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 18583

NM 38/04

SIUSLAW RIVER							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2004							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE TO HIGHWAY BRIDGE	9	10	11	3-04	300-200	5.0	18-16
TURNING BASIN	10	8	7	3-04	400	0.3	16
TURNING BASIN TO CUSHMAN	8	9	8	7-99;3-04	150	2.1	12
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 18587

NM 38/04

COOS BAY AND ISTHMUS SLOUGH CHANNEL DEPTHS TABULATED FROM SURVEYS AND REPORTS BY THE COPRS OF ENGINEERS - SURVEYS TO JUL 2004							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE RANGE	39	39	38	6-04	---	1.9	47-37
ENTRANCE RANGE AND TURN	39	48	31	3-04	300-1050	0.5	37
INSIDE RANGE	38	38	38	3-04	300	0.6	37
COOS BAY RANGE	36	37	36	3-04; 5-04	300	1.6	37
EMPIRE RANGE	36	38	38	5-04	300	1.3	37
LOWER JARVIS RANGE	37	37	37	5-04	300	0.8	37
JARVIS TURN	38	40	37	5-04	300	0.5	37
UPPER JARVIS RANGE	32	35	35	7-04	300-700	1.9	37
NORTH BEND LOWER RANGE	39	38	38	7-04	400	0.4	37
NORTH BEND RANGE	34	37	36	6-04	400	0.9	37
NORTH BEND UPPER RANGE	37	38	36	6-04	400	0.6	37
LOWER TURNING BASIN	36	37	35	6-04	400-900	0.3	37
FERNDAL E LOWER RANGE	39	40	38	6-04	400	0.4	37
FERNDAL E TURN	35	38	38	6-04	400	0.2	37
FERNDAL E UPPER RANGE	27	37	35	6-04	400	0.7	37
MARSHFIELD RANGE	37	35	31	6-04	400	0.4	37
MARSHFIELD RANGE TO ISTHMUS SLOUGH	35	34	35	6-04	150-750	0.9	37
ISTHMUS SLOUGH	19	20	19	4-85	150	2.0	22
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 18588

NM 38/04

COQUILLE RIVER CHANNEL TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 2004 AND SURVEYS TO JUN 2004							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
A ENTRANCE CHANNEL	14	15	13	6-04	200	0.33	13.0
ENTRANCE CHANNEL TO PORT DOCK (43°07'15.9"N, 124°24'50.5"W)	15	13	8	6-04	200	0.63	13.0
THENCE TO END OF PROJECT	11	13	16	6-04	150	0.38	13.0
A. THE ENTRANCE CHANNEL IS SUBJECT TO FREQUENT CHANGES AND THE DEEPEST WATER IS NOT ALWAYS ON THE RANGE. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 74393

NM 38/04

NOTE
The Traffic Separation Scheme on this chart has not been adopted by the IMO.

Chart 74394

NM 38/04

NOTE
The Traffic Separation Scheme on this chart has not been adopted by the IMO.